

11 January 1960

MEMORANDUM FOR: Office of Logistics/Procurement Division/Contract Branch

SUBJECT: Request for Increase in Scope with Additional Funds under Task III of Contract RD-96 with [redacted], [redacted]

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1. Task III under Contract RD-96 with [redacted] was established in October 1959 for a development effort directed toward the design, installation, and evaluation of an air conditioned, mobile, combination audio-photo surveillance unit. Due to additional requirements it is now necessary that the scope of Task III be amended to include close observation of the immediate area surrounding the vehicle for physical security purposes, an installation for the operation of IR equipment from inside the working space, and to incorporate an inconspicuous luggage rack as the antenna for special communications equipment.

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2. It is therefore requested that the scope of Task III be amended in accordance with the contractor's proposal attached hereto and that additional funds in the amount of \$5,825.00 be made available to the contractor for the performance of this work. Charges are to be made against Allotment Number 0327-1002-5036.

3. It is further requested that the completion date of Task III be extended until 1 April 1960.

4. Additional information concerning this request may be obtained by contacting the project engineer for this program, [redacted] Room 210, West Outbuilding, extension [redacted]

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*WPS*  
[redacted]  
Chief  
TSS/Engineering Division

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Attachments:

Proposal dtd 30 Dec 59  
TSS-913-27-1307-60

APPROVED:

Distribution:

Orig & 1 - Addressee  
1 - TSS/OC  
1 - TSS/FASB  
1 - TSS/LB  
1 - TSS/SRC  
1 - TSS/SRB  
1 - ED-175P

Research Director

**SECRET**

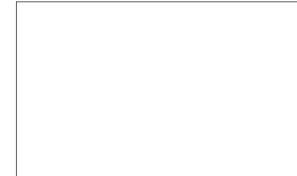
Date

cc/v/TSS/mh/m

Comptroller  
ED Chrono  
EMI File

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In replying please address:



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December 30, 1959

Dear Sir:

In accordance with recent discussions with your technical representatives, we are herewith proposing that the scope of the research program being conducted under Task Order No. NN be broadened to include the research described below. The proposed additional effort would be directed primarily toward investigating and, if possible, providing (1) the means whereby the occupants of the Volkswagen panel truck would be able to observe closely the activity in the area immediately surrounding the truck during the day and at night; and (2) a special antenna for the vehicle communications transmitter.

On October 5, 1959, an effort under Task Order No. NN was undertaken that was directed toward the design, development, installation, and evaluation of an experimental air-conditioning and ventilation system for a Volkswagen panel truck and toward the modification of the truck for certain specialized conditions of use. These specialized conditions were described in detail in our letter and proposal dated September 16, 1959.

Early in December, it became apparent to your technical representatives that additional modifications to the truck would be necessary if the vehicle was to be of maximum use in the field. These modifications were concerned with the provision, if possible, of additional facilities for improved observation from the vehicle and for increased transmitting range. In this connection, it

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is proposed that additional research be performed under Task Order No. NN that would be directed toward achieving the following objectives:

- (1) The provision of special mirrors and a sight port which would permit observation of areas close to the sides of the vehicle.
- (2) The investigation of the technical feasibility and estimated cost for the preparation, installation in the vehicle, and evaluation of equipment to permit observation at night by means of infrared light.
- (3) The investigation, preparation, and installation of a relatively inconspicuous luggage rack that would be mounted on the top of the vehicle and could be used as an antenna to increase the range of the special communications transmitter.

The proposed effort, as currently contemplated, is described in more detail below.

#### Special Mirror Installation

The provision of a few simple observation ports was included in the effort proposed originally. However, a further mutual study of the problems involved in trying to watch persons who are close to the exterior of the vehicle has shown that additional means for observation are needed.

It appears that a special viewing port could be incorporated in the truck wall between the cab and the cargo area, and special mirrors could be

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December 30, 1959

installed on the fenders of the vehicle, so that the vehicle occupants could observe along both sides of the vehicle through the special observation port. Under the proposed effort, this type of system would be investigated. If, as expected, the results of this study are favorable, a system of this type would be provided in the vehicle.

#### Investigation of Infrared System

The military services have developed special equipment which uses infrared light for viewing at night. Essentially, the equipment consists of a source which transmits infrared light and a receiver which receives the reflected infrared rays. The reflected rays are made viewable to the naked eye by an available instrument incorporated in the receiver.

For the proposed effort in this connection, it is contemplated that your technical representatives would furnish us appropriate infrared transmitter and receiver equipment and we would evaluate this equipment under conditions which would be applicable to the vehicle and which would simulate service in the field. If, as expected, this study showed that the installation and use of an infrared system of this type were feasible, tentative installation designs would then be prepared and furnished to your technical representatives for their consideration. It is anticipated that the preparation of installation designs would involve a major amount of effort, particularly in regard to attempting to anticipate the methods which would have to be used in adapting the standard devices to the application of interest.

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December 30, 1959

Luggage-Rack Antenna

Originally, associates of your technical representatives thought that the standard Volkswagen radio antenna could be used satisfactorily for the special communications transmitter which was to be installed in the vehicle. However, after further consideration of the problem of transmitting under service conditions, they decided that a special transmitter was needed, and, consequently, an improved antenna would have to be provided.

As part of the proposed research, an investigation would be made of the problems of modifying a standard luggage rack and of mounting it on top of the vehicle, in an attempt to provide an experimental antenna which would operate satisfactorily in providing increased range for the special communications transmitter. It is realized that such an experimental luggage-rack antenna would have to be tuned to the transmitter in order to achieve optimum transmission and that the problems of attaining a tuned luggage-rack antenna which would be relatively inconspicuous would have to be solved. If, as anticipated, mutually acceptable solutions to these problems are evolved, an appropriate luggage rack would be obtained, modified, and installed.

Every effort would be made to expedite the performance of the proposed research.

It is anticipated currently that an increase in the original appropriation of \$5,825, including an increase in the fixed fee of \$330, would be needed to provide for the additional research under Task Order No. NN as described above. A general breakdown of the estimated costs is attached. The research period should be extended through March 31, 1960.

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Aside from the above, no other changes in the contract are requested as of this time. Of course, the proposed amendment would continue our period-basis research agreement, consistent with our current contractual arrangements.

If you should have any questions with regard to this amendment, please do not hesitate to call us. Any inquiries of a contractual nature may be directed to

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Very truly yours,

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Vice President

KMS:mlm

In Duplicate

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Proposal of  to the U. S. Government.

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For Research on ~~XXXXXX~~ Expansion of research under Task Order No. NNBased upon a period-basis Contract for a research period of ~~xx~~ extended through March 31, 1960.

(Including time for submission of all reports. The proposed contract will not provide for earlier conclusion of the research.)

**ESTIMATED COSTS**

We expect that the cost of this research for the period indicated above may be distributed approximately as set forth hereon, subject to the understanding that this allocation is merely an estimate, and actual costs incurred may vary from the categories shown. We have determined that these estimates are reasonable and consistent with s established policies in its research for the various Government agencies, which policies are briefly discussed below and will be followed in determination of our actual costs hereunder.

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**Materials & Supplies, etc.**

\$ 300

(Including any equipment which may be purchased as necessary in performance of the research. Charges of \$25 or less are excluded from this item.)

**Use of Equipment and Technical Services, Travel, and Misc.**

\$ 600

(Including applicable costs of technical research and service divisions, and use of technical equipment, except that any undistributed balances of these accounts will be included in overhead. Cost of travel includes reasonable actual subsistence expenses and the actual cost of transportation. An allowance of up to 8¢ per mile for all necessary travel by privately owned conveyance is included in lieu of the cost of such travel.)

**Salaries & Wages**

(Including our predetermined accrual for vacation, holiday, and sick-leave pay, pensions, and social security.)

Type of Employee	No. of Man-Months	Estimated Cost
Supervision	1/3	\$ 350
Research Engineers	1-2/3	1,250
Lab. Assistants	2-1/2	1,050
Steno., Clerical, Shop & Photo., etc.	1/2	240
Total Salaries & Wages		<hr/>

**Overhead**

\$2,890

50 per cent of salaries and wages, as they are defined above. Provisional monthly reimbursement will be at the rate of 50 per cent of salaries and wages, as so defined, or at such other provisional rate as may from time to time be mutually agreed upon with the Government's audit representatives. This is a provisional rate for current reimbursement, which we have arrived at by negotiation with Government representatives, and it will be subject to retroactive revision to the "actual" rate agreed upon with them for each calendar year following a detailed audit for that year. The item of overhead includes general research, charges of \$25 or less for materials and supplies, and other categories of costs we customarily include in our overhead account. Cash discounts on all purchases will be credited to overhead, instead of to the amount of the purchase. Scrap of appreciable value will be credited directly to the project. All other scrap will be credited to the overhead account, in which the Government participates.)

	\$1,705
Total Estimated Cost	\$5,495
Fixed Fee	\$ 330

\*Please let us have your acceptance in our hands by February 15, 1960. Contract Price  
Unless we extend the time, your acceptance after that date will be subject to agreement.

\$5,825